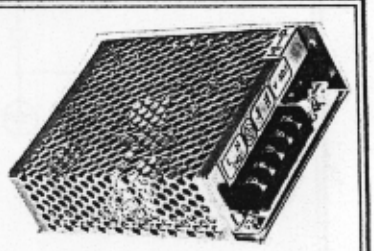
MEAN WELL
SWITCHING POWER SUPPLY

S-40 SERIES

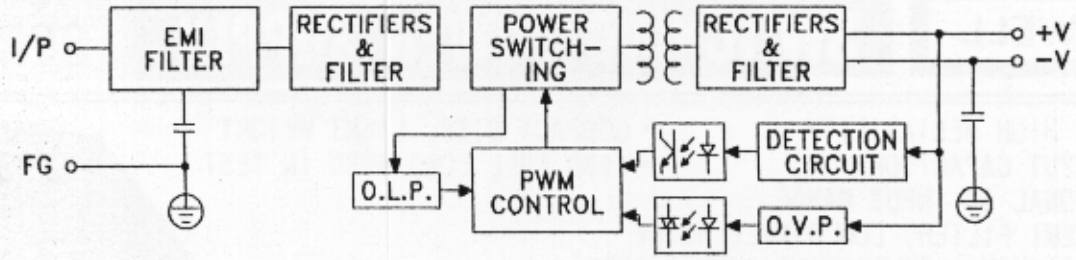
- LOW COST, HIGH RELIABILITY
- 105℃ OUTPUT CAPACITOR
- INTERNATIONAL AC INPUT RANGE
- BUILT IN EMI FILTER, LOW RIPPLE NOISE
- HIGH EFFICIENCY, LOW WORKING TEMPERATURE
- SOFT-START CIRCUIT, LIMITING AC SURGE CURRENT
- SHORT CIRCUIT, OVERLOAD, OVERVOLTAGE PROTECTED
- COMPACT SIZE, LIGHT WEIGHT
- 100% FULL LOAD BURN-IN TEST



MODEL / SPECIFICATION	S-40-5	S-40-12	S-40-15	S-40-24
DC OUTPUT VOLTAGE	5V	12V	15V	24V
OUTPUT V. TOLERANCE	±2%	±1%	±1%	±1%
OUTPUT RATED CURRENT	8A	3.5A	2.8A	1.8A
OUTPUT CURRENT RANGE	0-8A	0-3.5A	0-2.8A	0-1.8A
RIPPLE & NOISE (p-p)	75mVp-p	100mVp-p	100mVp-p	100mVp-p
LINE REGULATION	±0.5%	±0.3%	±0.3%	±0.2%
LOAD REGULATION	±0.5%	±0.3%	±0.3%	±0.2%
DC OUTPUT POWER	40W	42W	42W	43W
EFFICIENCY	72%/115VAC	77%/115VAC	77%/115VAC	79%/115VAC
DC VOLTAGE ADJ.	+10,-5%	±10%	±10%	±10%
INPUT VOLTAGE RANGE	85～264VAC			
INPUT FREQUENCY	47～63Hz			
AC CURRENT	1.2A/115V 0.6A/230V			
INRUSH CURRENT	COLD START 25A/115V 50A/230V			
OVERLOAD PROTECTION	105%～150% TYPE:FOLDBACK CURRENT SHUTDOWN RECOVERY:AUTO			
OVER V. PROTECTION	VO＊115%～135%			
OVER TEMP. PROTECTION	-----			
TEMP. COEFFICIENT	±0.03% / ℃			
SETUP,RISE,HOLD UP TIME	800ms, 50ms, 15ms/115VAC 300ms, 50ms, 80ms/230VAC			
WITHSTAND VOLTAGE	I/P-O/P:3KV(NOTE:6) I/P-FG:1.5KV O/P-FG:0.5KV 1min.			
WORKING TEMP.,HUMIDITY	-10℃～+60℃, 20%～90% RH (REFER TO OUTPUT DERATING CURVE)			
STORAGE TEMP.,HUMIDITY	-20℃～+85℃, 10%～95% RH			
DIMENSION	129＊98＊38mm CASE:903			
WEIGHT	0.45Kgs			
SAFETY	UL1012, TUV EN60950 (IEC950, UL1950) APPROVED			
EMC	CISPR22 (EN55022) CLASS B, IEC801-2,3,4, IEC555-2 VERIFICATION			

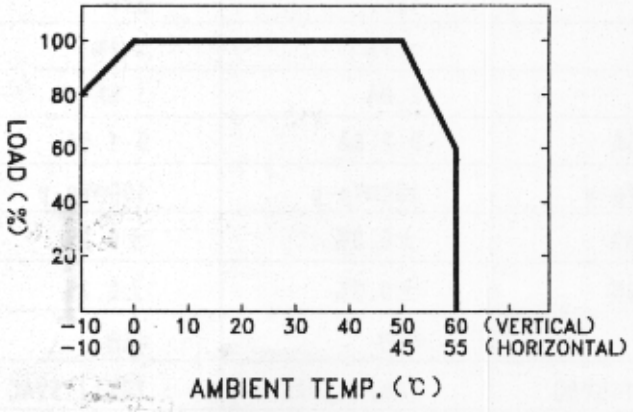
NOTE:
1. ALL PARAMETERS ARE SPECIFIED AT 230VAC INPUT, RATED LOAD, 25℃ AMBIENT.
2. TOLERANCE : INCLUDE SET UP TOLERANCE, LINE REGULATION, LOAD REGULATION.
3. RIPPLE & NOISE ARE MEASURED AT 20MHz BY USING A 12" TWISTED PAIR TERMINATED WITH A 0.1uF & 47uF CAPACITOR.
4. LINE REGULATION IS MEASURED FROM LOW LINE TO HIGH LINE AT RATED LOAD.
5. LOAD REGULATION IS MEASURED FROM 0% TO 100% RATED LOAD.
6. C2,3,6 MUST BE REMOVED.

BLOCK DIAGRAM

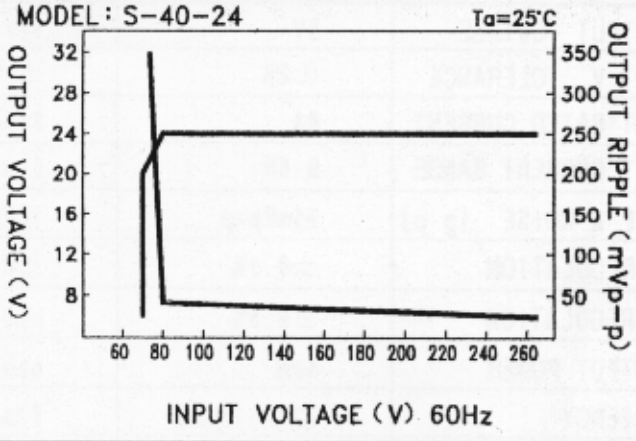


fosc : 36KHz

OUTPUT DERATING



STATIC CHARACTERISTICS



DIMENSION (mm)

- CASE : 903
- TERMINAL PIN NO. ASSIGNMENT
  - PIN 1,2 : AC INPUT
  - PIN 3 : FG ⏚
  - PIN 4 : DC OUTPUT -V
  - PIN 5 : DC OUTPUT +V